



MAKERS OF
METAL WINDOWS
IN
STEEL AND BRONZE

CATALOGUE № 153 •

TELEPHONE Nº 5640 (5LINES)

"TELEGRAPH"
GARDSONS BRISTOL







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Cara

# GARDINER, SONS & Co.

Manufactory:

Midland Ironworks, St. Philip's, Bristol

Telegraphic Address: "GARDSONS, BRISTOL." Telephone No. 5640 (5 lines).

### BRISTOL

Showrooms & Offices:

#### Nelson Street

Telegrams: "GARDSONS, BRISTOL." Telephone: 5640 (5 lines).

### LONDON OFFICE

Brownlow House, 50/51 High Holborn, W.C.1

Telephone: Chancery 8677.



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### A Few Examples of Work Recently Executed

## GARDINER, SONS & © MIDLAND IRON WORKS BRISTOL



LLOYDS BANK, CORN STREET, BRISTOL. METAL WINDOWS.

Messrs. Waller & Son, Architects, Gloucester.



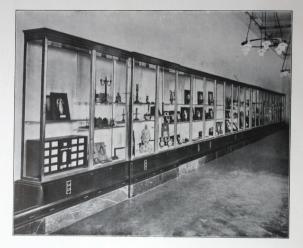
PORTISHEAD POWER STATION. STEEL SASHES AND GEARING.

H. M. DE COLLEVILLE, Esq., A.M.INST.M. & Cy.E. Architect, London.



"THE FRIARS," WINCHELSEA. CASEMENTS.

REGINALD T. BLOMFIELD, Esq., F.R.I.B.A., Architect, London.



MAKERS OF

### Improved Air-Tight Show Cases with Metal Frames & Doors

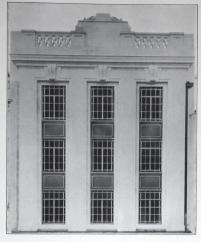
AS MADE FOR THE

### VICTORIA AND ALBERT MUSEUM SOUTH KENSINGTON.



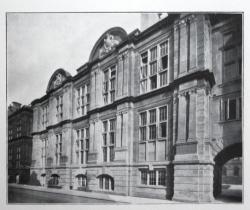
GOVERNMENT BUILDINGS, KINGSTON, JAMAICA.
STEEL SASHES, LOUVRE VENTILATORS AND FRENCH WINDOWS.

Messes. SIR CHARLES NICHOLSON AND CORLETTE, Architects, London,



CAVENDISH HOUSE, BRISTOL. BRONZE WINDOWS AND PANELS.

W. H. WATKINS, Esq., F.R.I.B.A., Architect, Bristol.



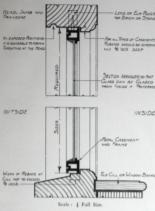
DOWNING STREET, CAMBRIDGE. CASEMENTS.

Messis. Stevenson and Redfern, F.R.I.B.A., Architects, London.

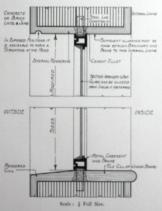
ON the opposite page we show some suggestions for preparing Stone, Brick, and Wood Openings to take Metal Windows.

When customers are preparing their drawings we shall be pleased to send details so that their frames may be prepared in such a way that we can quote for the most economical and efficient sections to suit the particular requirements of the building.

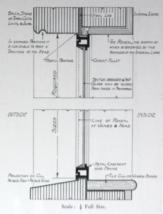
#### APPLICATION OF METAL WINDOWS



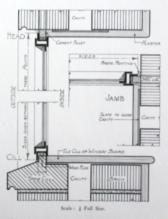
The above illustrates the preparation required for rebated stone or wood frames to take metal casements as generally required for Domestic, Church and School Windows and as shown on pages to to 17.



The above illustrates metal windows as shown on pages 10 and 11 fixed in an opening with no reveal but with rough cast outside and plaster rendering inside.



The above illustrates metal windows as shown on pages 10 and 11 fixed in an opening with a reveal and internal face of opening finished with cement or plaster.



The above illustrates metal windows as shown on page 12 fixed to hollow brick walls with plaster rendering inside.

#### COMPOSITE METAL WINDOWS



These windows can be made to any size and arrangement of panels.

The panels can be in one pane or divided with Tee bars into smaller panes or fitted with Leaded Lights.

A 90.

The Windows can be made of different size sections as shown on page opposite.

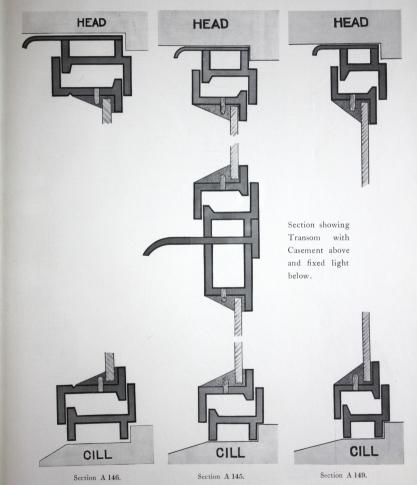
We can supply the section in Steel or Bronze Metal.



A 91.

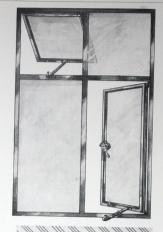
#### COMPOSITE METAL WINDOWS

Full size Sections for Windows shown on Page 10.



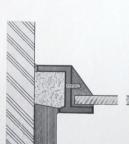
#### COMPOSITE

These sections are suitable for windows where all vents open outwards.



#### WINDOWS

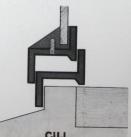
The windows are made to customers' sizes and designs, and can be made of heavier sections when necessary.



JAMB. Brick with Plaster Inside.

FULL-SIZE SECTIONS







JAMB. Rebated Stone or Wood.



Alternative Wide Flange Frame.

Side-hung and Top-hung Casements

Opening Outwards

Guaranteed Watertight

A 157.

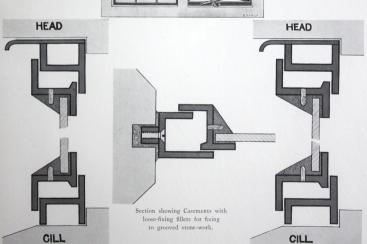
Suitable for Casements up to 4ft. 6in. high.

The illustration shows Casements fitted with Leaded Lights.

They can be made for one pane of glass or divided into any number of panes to take sheet glass.

A 156.

Suitable for Casements up to 3 ft. 6 in. high.



FULL-SIZE SECTIONS

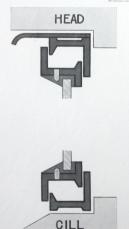
Side-hung and Top-hung Casements

Opening Outwards

Guaranteed Watertight

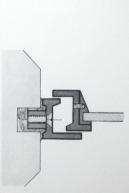
The illustration shows Casements fitted with Leaded Lights.

They can be made for one pane of glass or divided into any number of panes to take sheet glass.

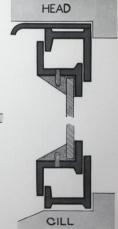


A 53 D.

Suitable for Casements up to 3 ft. 6 in. high.



Section showing Casement with loose fixing fillets for fixing to grooved stonework.



A 53 F.

Suitable for Casements up to 4 ft. high.

FULL-SIZE SECTIONS

Side-hung and Top-hung Casements

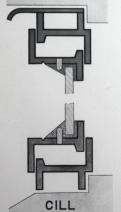
Opening Outwards

Guaranteed Watertight

The illustration shows Casements fitted with Leaded Lights.

They can be made for one pane of glass or divided into any number of panes to take sheet glass.

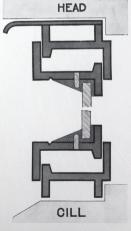




HEAD

A 145.

Suitable for Casements up to 5 ft. high.



A 146.

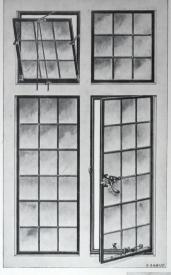
Suitable for Casements up to 6 ft. high.

FULL-SIZE SECTIONS

Side-hung and Bottom-hung Casements

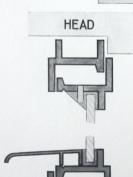
The illustration shows Casements fitted with Leaded Lights.

They can be made for one pane of glass or divided into any number of panes to take sheet glass.



Opening Inwards

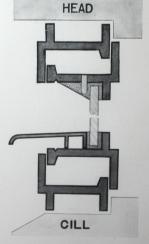
Guaranteed Watertight



A 145. Suitable for Casements up to 3 ft. 6 in. high.

CILL

FULL-SIZE SECTIONS



A 146. Suitable for Casements up to 4 ft. 6 in. high.

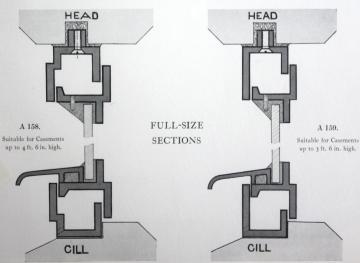
Side-hung and Bottom-hung Casements CAMENT

Opening Inwards

Guaranteed Watertight

The illustration shows Casements fitted with Leaded Lights.

They can be made for one pane of glass or divided into any number of panes to take sheet glass.





### Steel Casements only to hang to Wood Frames

FULL-SIZE SECTIONS



#### FIXED LIGHTS

FULL-SIZE SECTIONS



The above are Sections for Fixed Lights where a Steel Frame is required to match Opening Casements.



#### SWING CASEMENTS

WITE

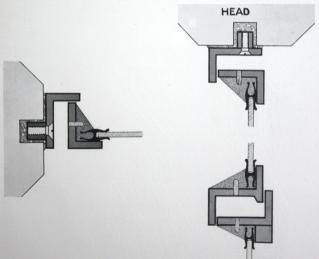
#### Glazing Below

as required for

Churches, Schools, etc.

The illustration shows a Casement prepared to take glazing below.

The Leaded glazing below is glazed direct into the stonework.



SECTION A 67 F, FULL-SIZE



HOPPER CASEMENTS

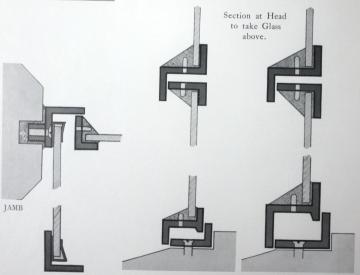
WITH

WINGS TO GLAZE

as required for

Churches, Schools

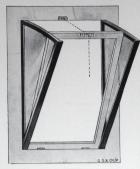
etc.



CILL Section A 68 B.

CILL Section A 68 C.

Wrot Steel Hopper Wings Only

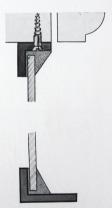


Section A 69.

For Wood Casements



Section A 69 B.



Section A 69 E.

FULL-SIZE SECTIONS

#### SCHOOL WINDOWS

The illustration shows one of the most popular types of Steel Windows used for Schools.

We shall be pleased to submit designs or quote to customers' own designs.





A 77.

Fixed Hopper Frames for Wood Sliding Sashes

#### CASEMENT HANDLES



Handle - No. A 101
Plate - - No. A 101



Handle - No. A 102
Plate - - No. A 115



HANDLE & PLATE - - No. A 104



Handle - No. A 109 Plate - - No. A 109



Handle - No. A 116 Plate - - No. A 107



Handle - No. A 117
Plate - - No. A 117

#### CASEMENT STAYS











#### SPRING CATCHES





F 232.



A 120.



IMPROVED DOUBLE FASTENERS. Suitable for Casements 5 ft. high and upwards.



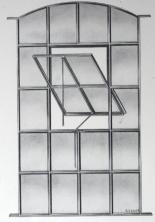
F 269.



A 122.

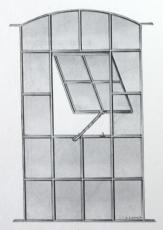
### Improved Wrot Steel Mitre Joint Sashes

Wrot Steel Sashes made to any size, shape or division of panes



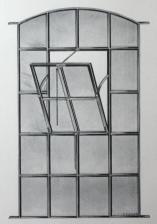
A 130.

Ventilator hung on centres, and fitted with pulley and eyes for Cords.



A 131.

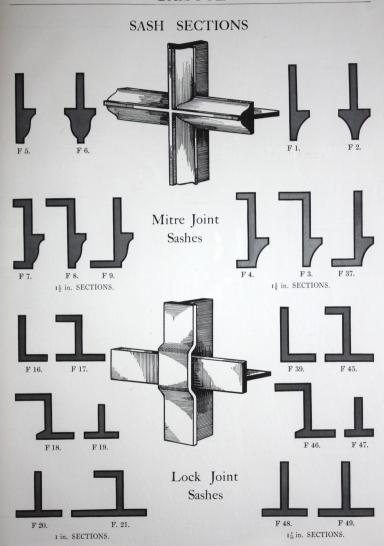
Ventilator hung at top, and fitted with push-out stay.

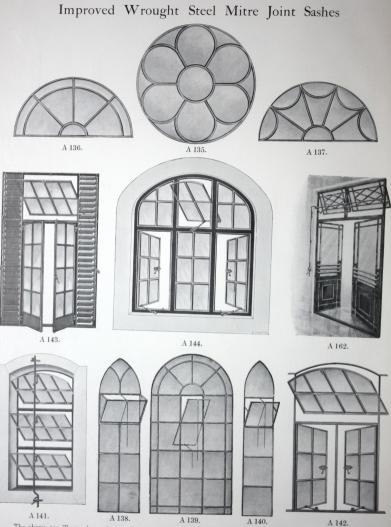


A 132.

Ventilator hung at bottom, and fitted with Quadrant Stops and Pulleys for Cords.

For Illustrations of Spring Catches and Special Openers, see page 25.





The above are illustrations of some of many types of Steel Windows we make. They are made to customers' sizes and requirements.

Ornamental Metal Windows



SUITABLE FOR MUNICIPAL BUILDINGS, BANKS, OFFICES, ETC.

A 167.



A 165.



A 166

Ornamental Doors for Municipal Buildings, Banks, Offices, etc.

These may be made in Steel or Bronze.

Designs and Estimates submitted on receipt of requirements.

### Windows for Hospital Theatre Rooms



The above is an illustration of special windows supplied by us for Operating Theatres. The Roof is constructed of Lead Covered Puttyless Glazing and the Vertical portion of Steel or Bronze Casements.

Prices on receipt of sizes.

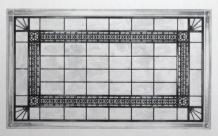
#### Steel Domes with Lead Lights in Bent Glass



A 164.

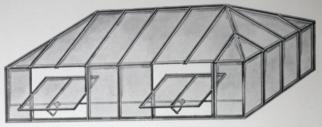
Special Designs submitted to suit Customers' requirements, or we shall be pleased to quote to Customers' own Designs.

#### Flat Steel Laylight with Coloured Lead Lights

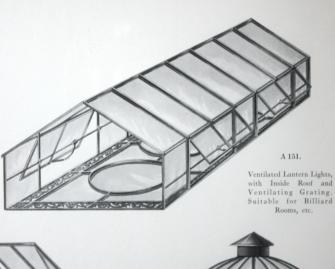


A 169.

Roofs, Ventilators, and Dome Lights



A 150. Ventilated Lantern Light.



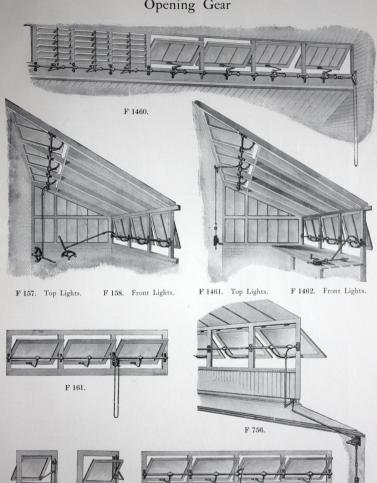




A 153. Dome Light.

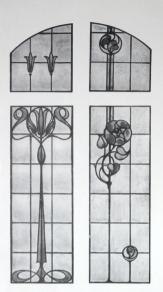
The above Illustrations are only suggestions. Roof Lights of any size or shape can be made. Prices on receipt of requirements.

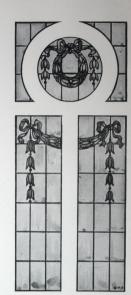
#### Opening Gear



F 757.

F 708.









#### Leaded Lights

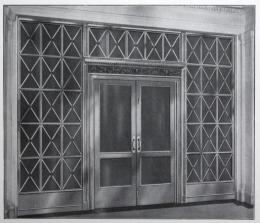
WE HAVE A SPECIAL DEPARTMENT at these Works for producing Lead Lights in order to save our Customers annoyance and trouble caused by arranging the sizes and position of Tie Bars with another Firm, and shall be pleased to quote Prices and send further designs on receipt of requirements.



TOP OF ENTRANCE GATES FOR LORD TEMPLE, NEAR BATH.

WE ALSO MAKE A SPECIALITY OF HIGH-CLASS WROUGHT-IRON AND BRONZE ORNAMENTAL WORK OF EVERY DESCRIPTION.

DESIGNS AND ESTIMATES SENT ON RECEIPT OF REQUIREMENTS.



BRONZE ENTRANCE.

BANK, GRACECHURCH STREET, LONDON.

